

INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL TO THE
PROSECUTION OF THE SUBJECT APPLICATION












Applicants: D. Stamatelakis et al. Attorney Docket No.: LAMA118471

Application No.: FILED CONCURRENTLY
HEREWITH

Filed: CONCURRENTLY
HEREWITH

Title: DISTRIBUTED PRECONFIGURATION OF SPARE CAPACITY IN
CLOSED PATHS FOR NETWORK RESTORATION

U.S. PATENT DOCUMENTS

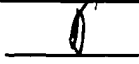


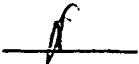
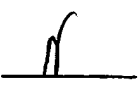




*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
	U1	4,956,835		09/11/1990	Grover
	U2	5,146,452		09/08/1992	Pekarske
	U3	5,173,689		12/22/1992	Kusano
	U4	5,235,599		08/10/1993	Nishimura et al.
	U5	5,435,003		07/18/1995	Chng et al.
	U6	5,495,471		02/27/1996	Chow et al.
	U7	5,537,532		07/16/1996	Chng et al.
	U8	5,590,119		12/31/1996	Moran et al.
	U9	5,835,482		11/10/1998	Allen
	U10	5,850,505		12/15/1998	Grover
	U11	5,999,286		12/07/1999	Venkatesan

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Cite No.	Document No.	Kind Code	Publication Date (mm/dd/yyyy)	Country	English Abstract Provided	Translation Provided
None							

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESSSM
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100

OTHER INFORMATION
(Including Author, Title, Date, Pertinent Pages, Etc.)


*Examiner Initial	Cite No.	
	O1	Grover, W.D. and M.H. MacGregor, "Potential for Spare Capacity Preconnection to Reduce Crossconnection Workloads in Mesh-Restorable Networks," <i>Electronics Letters</i> 30(3):194-195, February 3, 1994.
	O2	Herzberg, Meir and Stephen J. Bye, "An Optimal Spare-Capacity Assignment Model for Survivable Networks With Hop Limits," <i>Proceedings of IEEE Globecom '94</i> , Telecom Australia Research Laboratories, IEEE, Vol. 3, 1994, pp. 1601-1606.
	O3	Information sheet on Existing Telco Digital Cross-Connect Switch (DCS).
	O4	PCT International Application No. PCT/GB96/01912, filed August 6, 1996, entitled Route Finding in Communications Networks, International Publication No. WO 97/06643, published February 20, 1997.
	O5	PCT International Application No. PCT/GB96/01913, filed August 6, 1996, entitled Route Finding in Communications Networks, International Publication No. WO 97/06644, published February 20, 1997.
	O6	PCT International Application No. PCT/GB96/01914, filed August 6, 1996, entitled Route Finding in Communications Networks, International Publication No. WO 97/06645, published February 20, 1997.
	O7	PCT International Application No. PCT/US96/13830, filed August 28, 1996, entitled Deterministic Selection of an Optimal Restoration Route in a Telecommunications Network, International Publication No. WO 97/08860, published March 6, 1997.
	O8	PCT International Application No. PCT/US96/14999, filed September 18, 1996, entitled Communication System and Method Providing Optimal Restoration of Failed Paths, International Publication No. WO 97/11543, published March 27, 1997.
	O9	Photocopy of Canadian Patent Application No. 2,161,847, filed October 31, 1995 (published May 1, 1997), including drawings and filing certificate, corresponding to U.S. Patent Application No. 08/551,709, filed November 1, 1995, 32 pages.

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESSSM
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100

- 0 O10 Telecommunications Network Management Into the 21st Century, Techniques, Standards, Technologies, and Applications, "Distributed Restoration of the Transport Network," IEEE Press, Chapter 11, pp. 337-417, 1993.
- 0 O11 Wu, Tsong-Ho, "Fiber Network Service Survivability," Artech House, Boston, ©1992, pp. 1-211.

Examiner

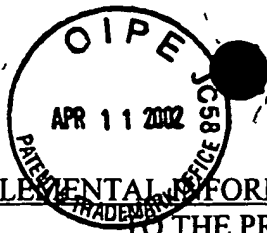
Date Considered

  11/27/06

*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

KLM:mc

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{LLC}
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100



SUPPLEMENTAL INFORMATION CITED BY APPLICANTS THAT MAY BE MATERIAL
TO THE PROSECUTION OF THE SUBJECT APPLICATION

Applicants: D. Stamatelakis et al.

Attorney Docket No. LAMA118471

















Application No.: 10/037,031

Group Art Unit: 2664

Filed: January 2, 2002








Title: DISTRIBUTED PRECONFIGURATION OF SPARE CAPACITY IN CLOSED
PATHS FOR NETWORK RESTORATION

U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	Document No.	Kind Code	Date (mm/dd/yyyy)	Name
	U12	4,993,015		02/12/1991	Fite, Jr.
	U13	5,065,399		11/12/1991	Hasegawa et al.
	U14	5,093,824		03/03/1992	Coan et al.
	U15	5,218,601		06/08/1993	Chujo et al.
	U16	5,239,537		08/24/1993	Sakauchi
	U17	5,444,693		08/22/1995	Arsilan et al.
	U18	5,513,345		04/30/1996	Sato et al.
	U19	5,548,639		08/20/1996	Ogura et al.
	U20	5,604,868		02/18/1997	Komine et al.
	U21	5,812,524		09/22/1998	Moran et al.
	U22	5,884,017		03/16/1999	Fee
	U23	6,044,064		03/28/2000	Brimmage et al.
	U24	6,047,331		04/04/2000	Medard et al.
	U25	6,049,529		04/11/2000	Brimmage et al.
	U26	6,052,796		04/18/2000	Croslin
	U27	6,154,296		11/28/2000	Elahmadi et al.







LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{PC}
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100

FOREIGN PATENT DOCUMENTS

*Examiner Initial	Cite No.	Document No.	Kind Code	Publication Date (mm/dd/yyyy)	Country	English	
						Abstract Provided	Translation Provided
	F1	GB 2 299 729 /	A	10/09/1996	U.K.		
	F2	GB 2 305 811 /	A	04/16/1997	U.K.		
	F3	WO 97/06643 /		02/20/1997	WIPO		
	F4	WO 97/06644 /		02/20/1997	WIPO		
	F5	WO 97/06645 /		02/20/1997	WIPO		
	F6	WO 97/08860 /		03/06/1997	WIPO		
	F7	WO 97/11543 /		03/27/1997	WIPO		

OTHER INFORMATION

(Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Cite No.	
	O12	Baker, J.E., "A Distributed Link Restoration Algorithm With Robust Preplanning," <i>Proc. IEEE GlobeCom '91</i> , December 1991, pp. 10.4.1-10.4.6.
	O13	Chao, C.W., et al., "FASTAR-A Robust System for Fast DS3 Restoration," <i>Proc. IEEE GlobeCom '91</i> , December 1991, pp. 39.1.1-39.1.5.
	O14	Chow, C.E., et al., "Performance Analysis of Fast Distributed Link Restoration Algorithms," <i>International Journal of Communication Systems</i> 8:325-345, 1995.
	O15	Chujo, T., et al., "Distributed Self-Healing Network and Its Optimum Spare-Capacity Assignment Algorithm," <i>Electronics and Communications in Japan</i> , Part 1, 74(7):1-8, 1991.
	O16	Coan, B.A., et al., "A Distributed Protocol to Improve the Survivability of Trunk Networks," <i>Proceedings of the 13th International Switching Symposium</i> 4:173-179, May 1990.
	O17	Coan, B.A., et al., "Using Distributed Topology Update and Preplanned Configurations to Achieve Trunk Network Survivability," <i>IEEE Transactions on Reliability</i> 40(4):404-416, 427, 1991.

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESSSM
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100

- O18 /Fujii, H., and N. Yoshikai, "Restoration Message Transfer Mechanism and Restoration Characteristics of Double-Search Self-Healing ATM Network," *IEEE J-SAC Special Issue: Integrity of Public Telecommunication Networks* 12(1):149-158 January 1994.
- O19 /Grover, W.D., and D. Stamatelakis, "Self-Organizing Closed Path Configuration of Restoration Capacity in Broadband Mesh Transport Networks," *CCBR '98*, 12 pages.
- O20 /Grover, W.D., and D. Stamatelakis, "Cycle-Oriented Distributed Preconfiguration: Ring-Like Speed With Mesh-Like Capacity for Self-Planning Network Restoration," *ICC '98*, 7 pages.
- O21 /Introduction to *SONET Networking*, Northern Telecom, October 1996, 44 pages.
- O22 /Iraschko, R.R., "Path Restorable Networks," *Ph.D. Dissertation*, University of Alberta, Edmonton, Fall 1996.
- O23 /Iraschko, R.R., et al., "Optimal Capacity Placement for Path Restoration in Mesh Survivable Networks," *Proc. IEEE ICC '96*, June 1996, pp. 1568-1574.
- O24 /Kawamura, R., et al., "Self-Healing ATM Networks Based on Virtual Path Concept," *IEEE J-SAC Special Issue: Integrity of Public Telecommunication Networks* 12(1):120-127, January 1994.
- O25 /Komine, H., et al., "A Distributed Restoration Algorithm for Multiple-Link and Node Failures of Transport Networks," *Proc. IEEE GlobeCom '90*, San Diego, December 1990, pp. 043.4.1-403.4.5.
- O26 /Sakauchi, H., et al., "A Self-Healing Network With an Economical Spare-Channel Assignment," *Proc. IEEE GlobeCom '90*, San Diego, December 1990, pp. 403.1.1-403.1.6.
- O27 /Saniee, I., "Optimal Routing Designs in Self-Healing Communications Networks," Bellcore, Morristown, N.J., May 1994.
- O28 /Stamatelakis, D., "Theory and Algorithms for Preconfiguration of Spare Capacity in Mesh Restorable Networks," *M.Sc. Thesis*, University of Alberta, Edmonton, Spring 1997.
- O29 /Ward, M., "There's an Ant in My Phone . . .," *New Scientist*, January 24, 1998, pp. 32-35.
- O30 /Wu, T.H., *Fiber Network Service Survivability*, Artech House, Boston, 1992, pp. 1-15, 123-210.

A O31- Yang, C.H., and S. Hasagawa, "FITNESS: Failure Immunization Technology
for Network Service Survivability," *Proc. IEEE GlobeCom '88*, Hollywood,
Fla., November/December 1988, pp. 47.3.1-47.3.5.

Examiner

Date Considered

 EH 1/20/86

*Examiner: Initial if reference considered, whether or not citation is in conformance with
M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include
copy of this form with next communication to applicant.

KLM/mc

LAW OFFICES OF
CHRISTENSEN O'CONNOR JOHNSON KINDNESS^{LLC}
1420 Fifth Avenue
Suite 2800
Seattle, Washington 98101
206.682.8100